

Water Shortage Update



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South Florida Water Management District
March 10, 2011

U.S. Drought Monitor

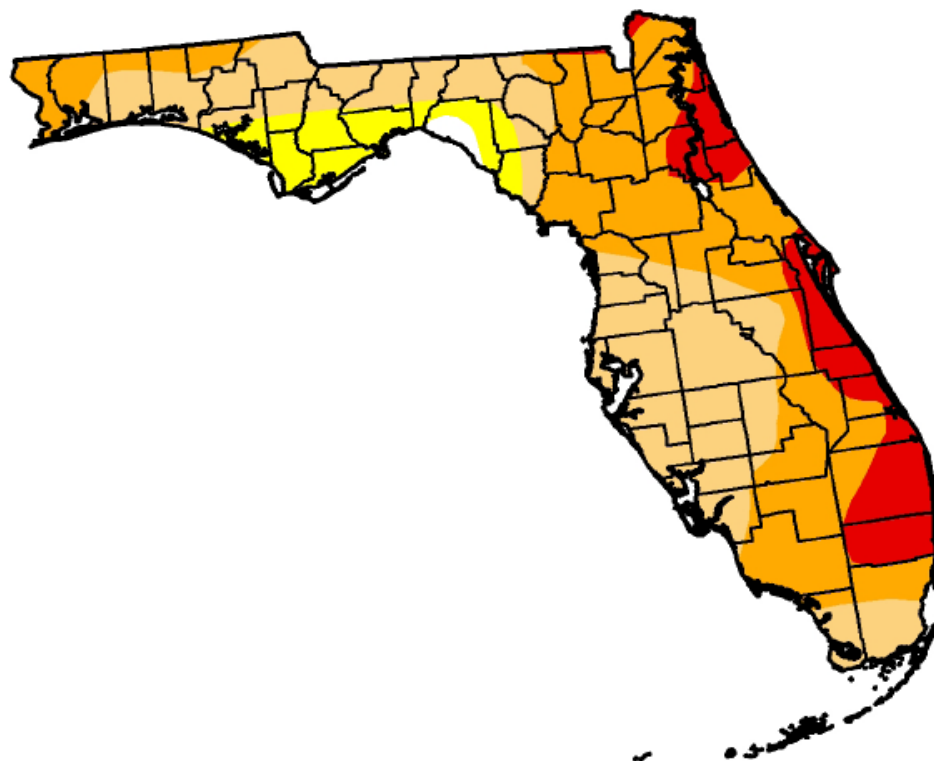
Florida

March 1, 2011

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.87	99.13	91.30	53.50	13.06	0.00
Last Week (02/22/2011 map)	0.87	99.13	84.98	48.42	10.64	0.00
3 Months Ago (11/30/2010 map)	4.08	95.92	69.13	30.22	7.91	0.00
Start of Calendar Year (12/28/2010 map)	0.18	99.82	86.04	50.84	20.21	0.00
Start of Water Year (09/28/2010 map)	54.97	45.03	18.02	4.22	0.00	0.00
One Year Ago (02/23/2010 map)	100.00	0.00	0.00	0.00	0.00	0.00



Intensity:

 D0 Abnormally Dry	 D3 Drought - Extreme
 D1 Drought - Moderate	 D4 Drought - Exceptional
 D2 Drought - Severe	

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>

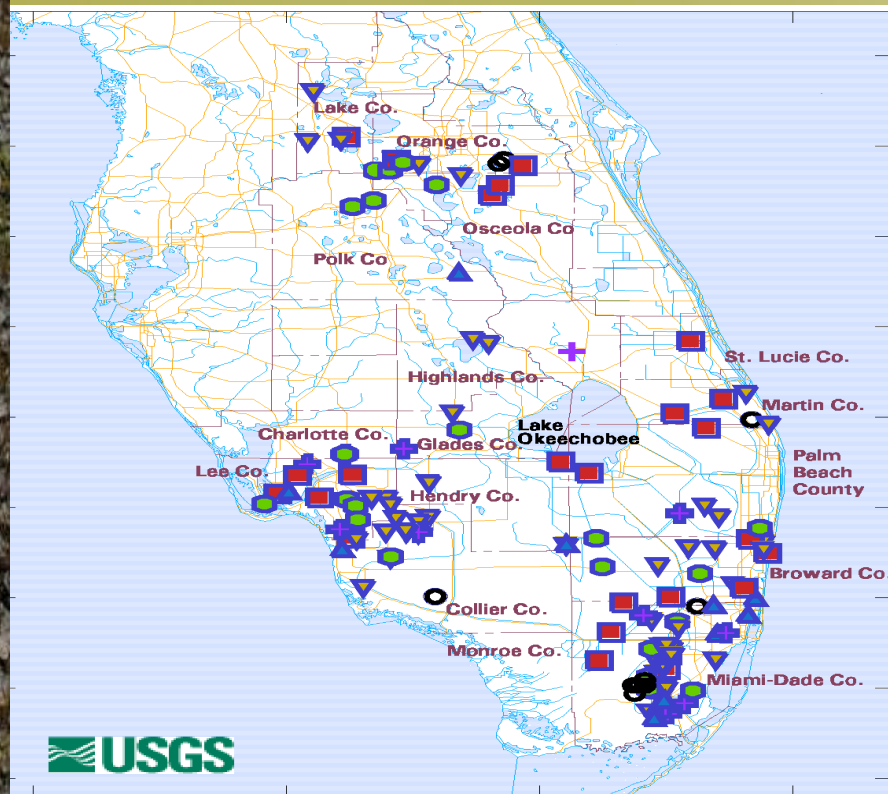


Released Thursday, March 3, 2011
L. Edwards, Western Regional Climate Center

Groundwater Levels

Feb. 3, 2011

Mar. 7, 2011

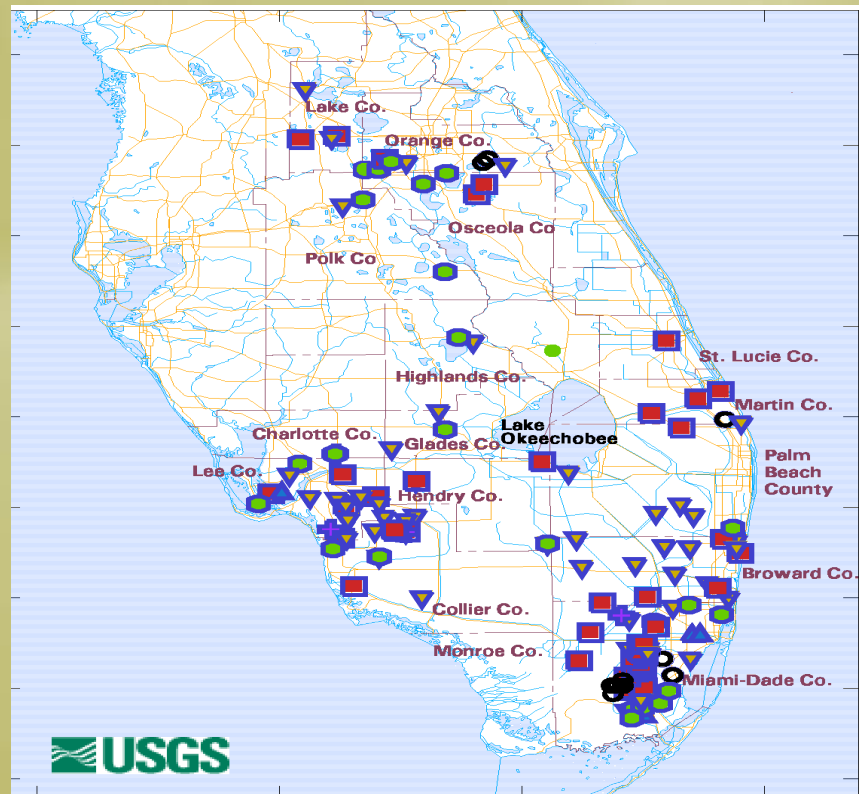


0 15 30 45 60 75 90 MILES
0 15 30 45 60 75 90 KILOMETERS

Rivers and canals
Roads and highways
County boundaries
Telemetry site

Water level compared to historical data, after long-term trends are removed
 Insufficient information available to compute water-level statistics
 In lowest 10 percent of past water elevations
 Within lowest 10 to 30 percent of past water elevations
 Within 20 percent of the median of past water elevations
 Within highest 10 to 30 percent of past water elevations
 In highest 10 percent of past water elevations

**Water levels at selected sites in South Florida,
Based on PROVISIONAL DATA, as of February 3, 2011.**



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**Water levels at selected sites in South Florida,
Based on PROVISIONAL DATA, as of March 7, 2011.**

Increased Reporting Frequency



- **Voluntary, Monthly**
- **Areas of Increased Concern due to low groundwater levels**
 - **Jupiter**
 - **Tequesta**
 - **South Martin Regional**
 - **Martin County-Jensen Beach**
 - **Stuart**
 - **Fort Pierce**

What's Ahead for Water Supply?

- **Below-normal rainfall predicted due to strong La Niña**
- **Water levels declining due to increased water demands and evapotranspiration**
- **Restrictions**

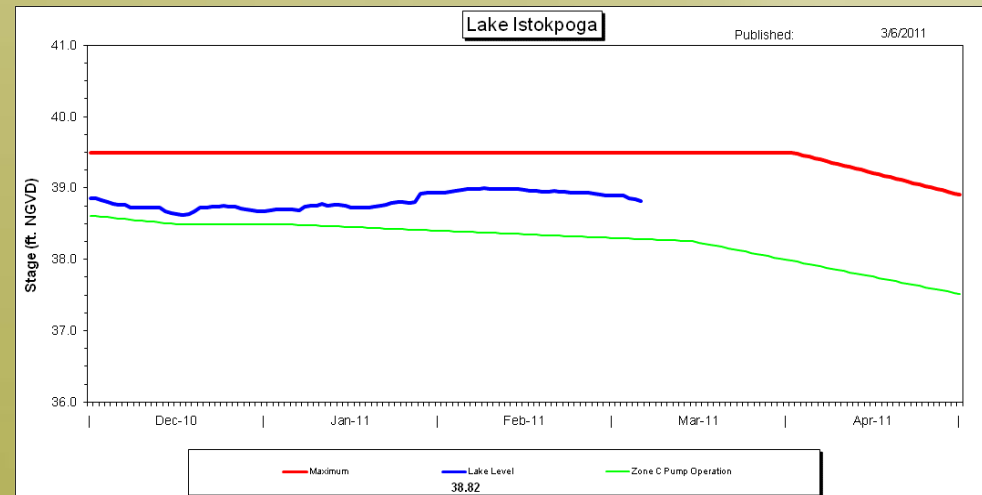
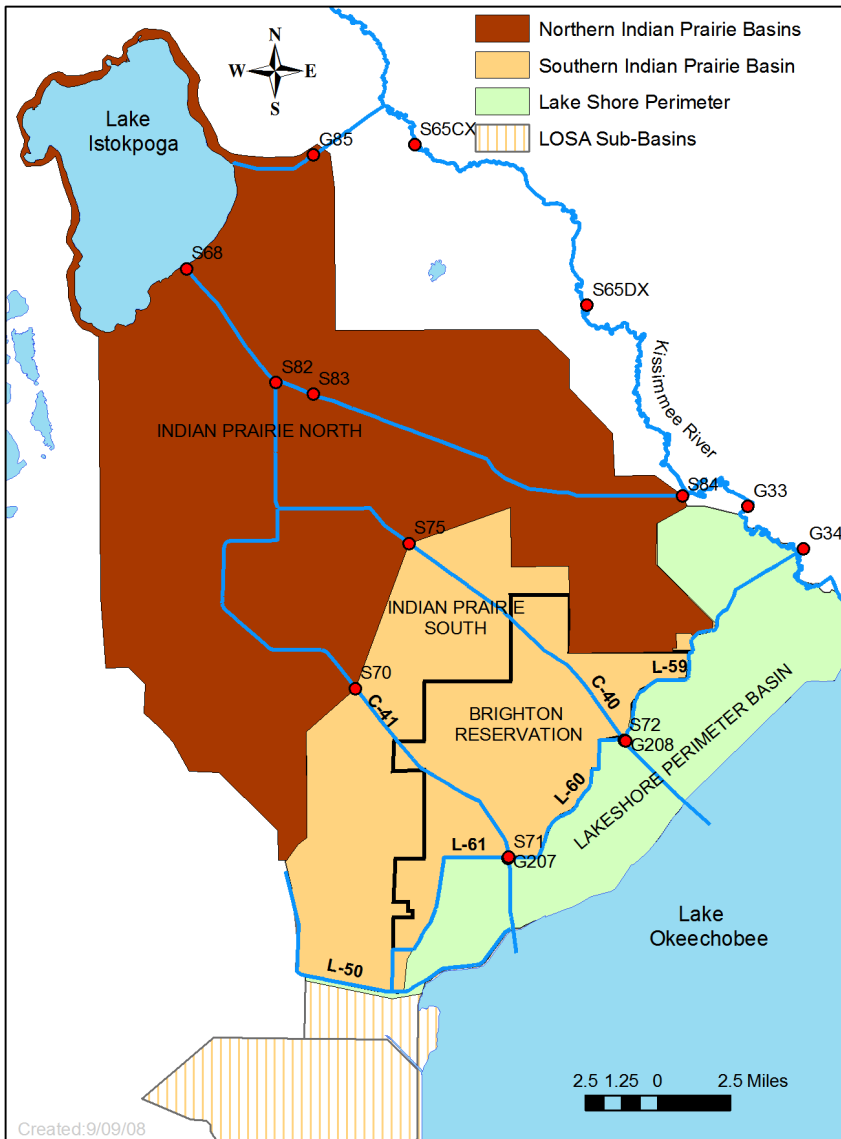
SFWMD Water Supply Risk Evaluation (Mar. 1, 2011)

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Beneficial Use Sub-Band	H
	Palmer Index for LOK Tributary Conditions	-2.00 (Dry)	M
	CPC Precipitation Outlook	1 month: Below Normal 3 months: Below Normal	H
	LOK Seasonal Net Inflow Forecast AMO warm/ENSO La Niña	0.92 ft (Dry)	M
	LOK Multi-Seasonal Net Inflow Forecast AMO warm/ENSO La Niña	2.17 ft (Normal)	M
WCAs	WCA 1: Site 1-8C	Between Line 1 and 2 (15.34 ft)	M
	WCA 2A: Site S-11B HW	On Line 1/ Line 2 (11.16ft)	M
	WCA-3A: 3 Station Average (S63, S64, S65)	Between Line 1 and 2 (8.98 ft)	M
LEC	Service Area 1	Year-Round Irrigation Rule in effect	H
	Service Area 2	Year-Round Irrigation Rule in effect	M
	Service Area 3	Year-Round Irrigation Rule in effect	H

INDIAN PRAIRIE BASINS, LAKESHORE PERIMETER BASIN,
and PORTIONS of KISSIMMEE RIVER VALLEY
WATER USE BASIN

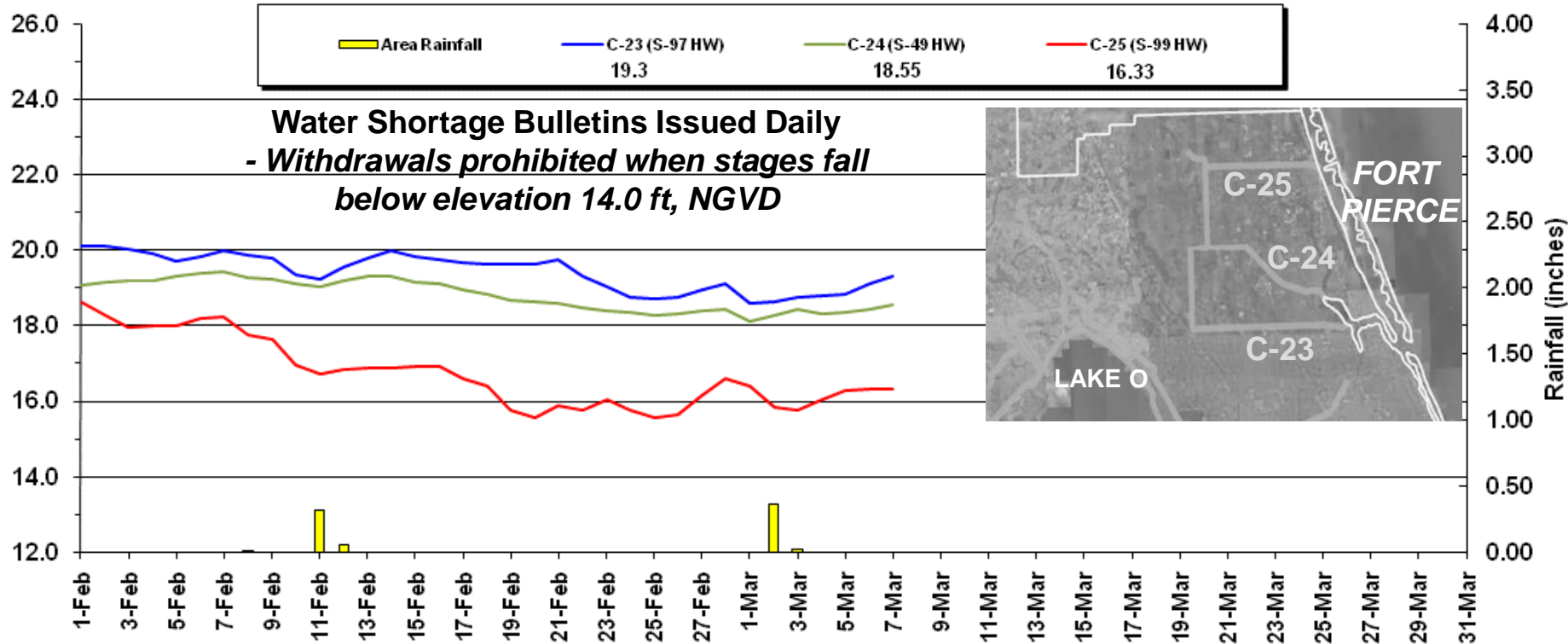
Indian Prairie Basin

- Lake Istokpoga level is 0.5 feet above floor elevation
- Continue monitoring



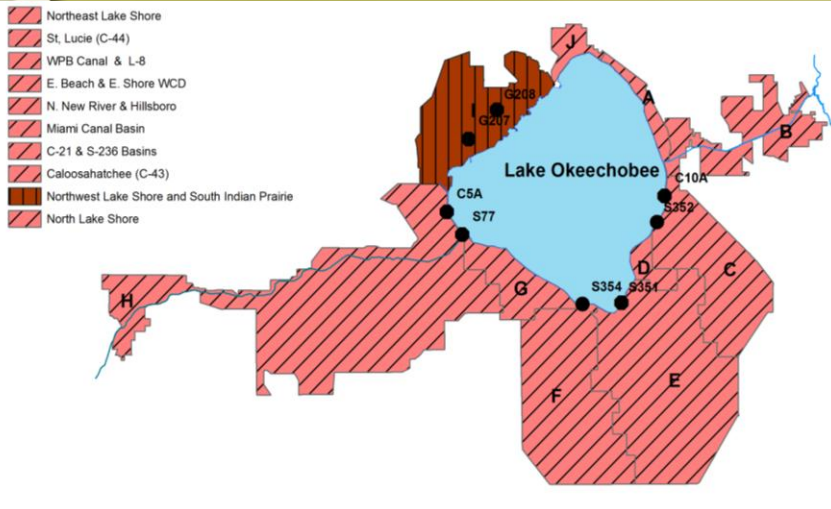
St. Lucie County Canals

Published: 03/07/11 St Lucie Structures on C23, C24 & C25 Canals



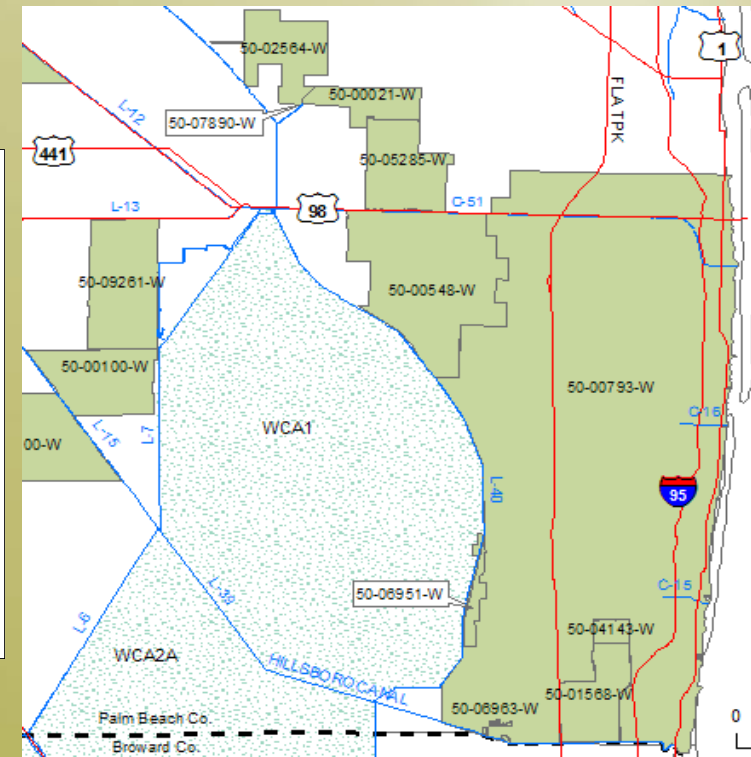
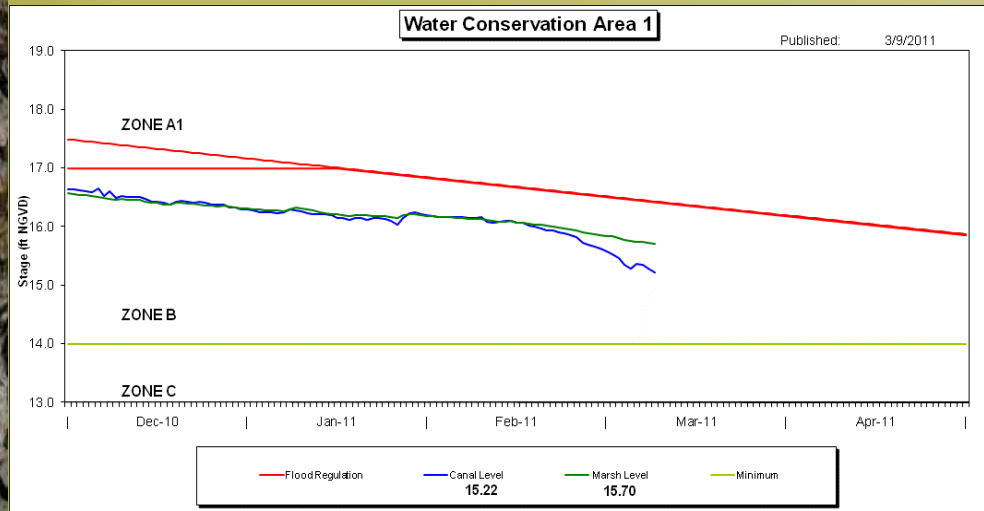
Lake Okeechobee Service Area

- Lake Okeechobee stage is 0.12 feet above Water Shortage Management Band
- GB authorized Executive Director to issue LOSA water shortage order once Lake level goes below band
- Continue monitoring
- Temporary Forward Pumps – standing by



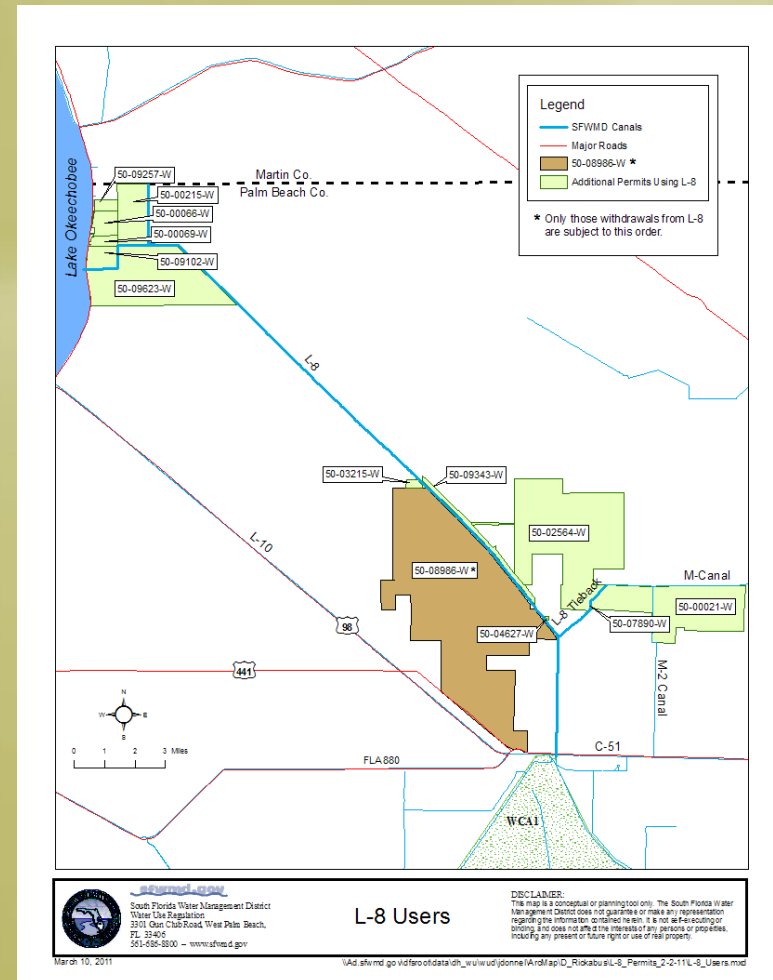
Water Conservation Area 1

- Marsh elevation separating from canal elevation -- Indicator of increased evapotranspiration and drying out of marsh
- Elevation 14 ft NGVD – cut off water supply deliveries
- Continue monitoring



L8 Basin Water Supply Users

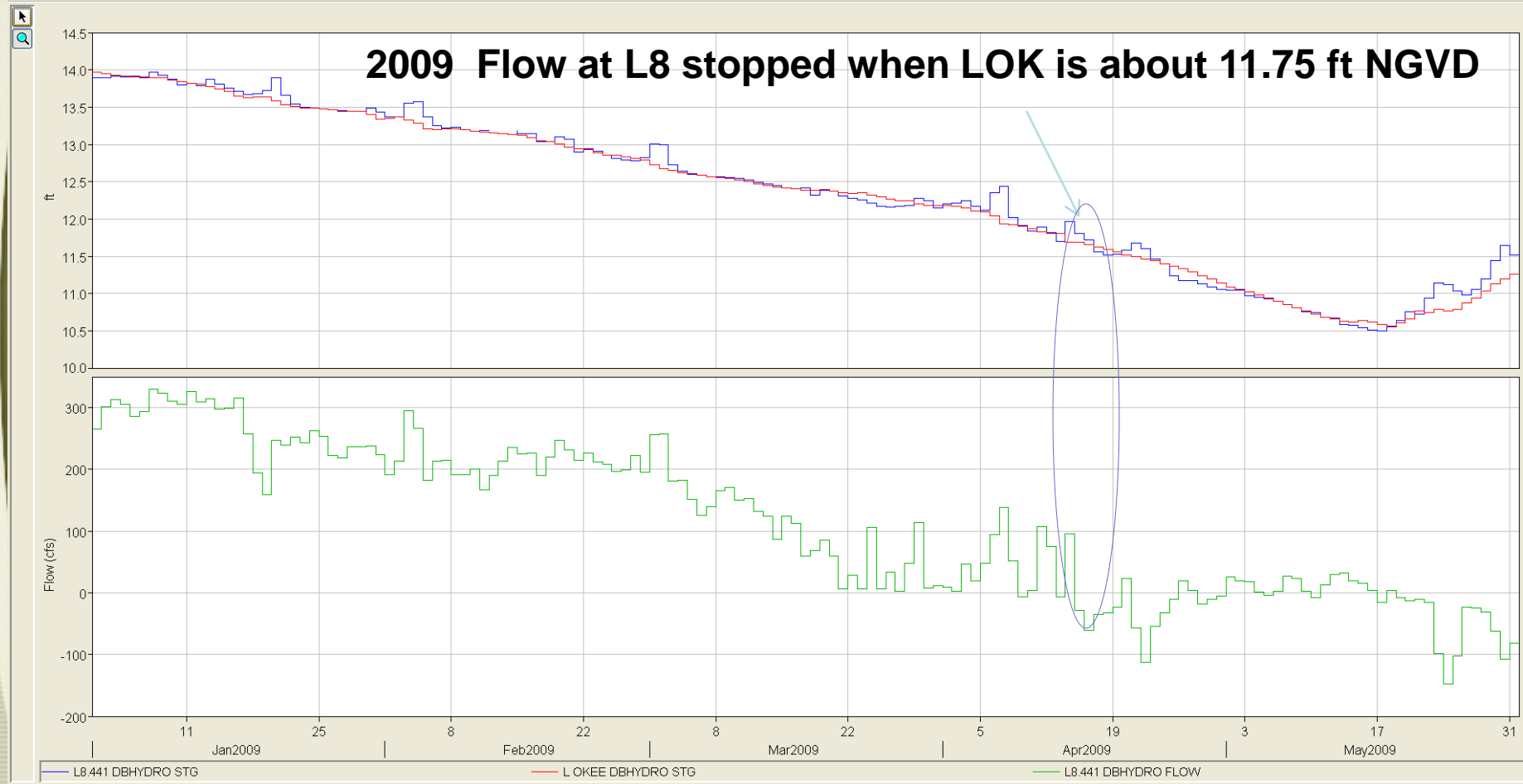
- **Diversion and Impoundments**
- **Agriculture**
- **L8 Tieback Canal stage is low (< 11 ft NGVD)**
- **C-10A flows less than 100 cfs and declining**



L8 Basin (cont'd)

/02854/L8.441/STG/01JAN1976/1DAY/DBHYDRO/

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L8 Basin (cont'd)

- **Unable to keep up with water demands**
- **City of West Palm Beach**
 - **Complied with our request for voluntary cutback to evening hours of pumpage only**
 - **Minimizes competition with other basin users**
- **15 percent cutback recommended**
 - **Extends supplies**
 - **Equitably distributes available water**

Staff Recommendation

Enter an Order for Declaration of Modified Phase I Water Shortage Restrictions Applicable to Specifically Identified Permittees located within Sub-Basin C (West Palm Beach Canal Basin) of the Everglades Agricultural Area Water Use Basin, Interior Palm Beach County Water Use Basin, M-Canal Water Use Basin, and portions of the Water Conservation Area 1/C-51 Water Use Basin that withdraw surface water from the L8 and M Canals.

Staff Recommendation

Enter an Order for Declaration of a Water Shortage Warning for Water Users Withdrawing Surface and Groundwater within the Boundaries of the South Florida Water Management District and Delegation of Authority to the Executive Director to Modify or Rescind the Provisions of this Order

Questions?

